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1. A method of treating a patent for depression comprising the step of administering to said patient an effective amount of a compound having a NMDA  $IC_{50}$  of about 50 nM to about 1  $\mu$ M as measured in the NMDA assay and a serotonin reuptake  $IC_{50}$  of less than or equal to about 100 nm as measured in the serotonin reuptake inhibition assay.

2. The method of claim 1, wherein said compound has an MMDA receptor ICs0 of 50 nM to 1  $\mu M$  and a SSRI ICs0 less than 100 nM.

A method of treating a patent for depression comprising the step of administering to said patient an effect amount of a compound having the chemical structure:

 $(X)_{m} \longrightarrow Ar^{1} \longrightarrow R^{1} R^{2}$   $(X)_{m} \longrightarrow Ar^{2} R^{1} R^{2}$ 

wherein each X is independently selected from the group consisting of -Br, -Cl, -F, -I, -CF<sub>3</sub>, alkyl, -OH, -OCF<sub>3</sub>, -O-alkyl, and -O-acyl;

Ar¹ and Ar² are each independently selected from the group consisting of phenyl, naphthyl, thiofuranyl, tetrahydronaphthyl, furanyl, tetrahydrofuranyl, pyridyl, quinolinyl, isoquinolinyl, tetrahydroquinolinyl, tetrahydroisoquinolinyl, cyclohexyl, cycloheptyl, and cyclopentyl;

each R<sup>1</sup> is independently selected from the group consisting of -H, alkyl, hydroxyalkyl, -OH, -O-alkyl, and -O-acyl;

each  $R^2$  is independently selected from the group consisting of -H, alkyl, and hydroxyalkyl, or both  $R^2$ s together are imino;

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each R<sup>1</sup> is independently selected from the group consisting of -H, alkyl, 2-hydroxyethyl, and alkylphenyl; and

eadh m is independently an integer from 0 to 5;

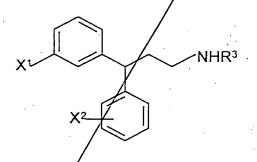
provided that if both  $R_3$ 's are -CH<sub>3</sub>, then both  $X_m$ 's are not 3-F, 4-F, 8-CF<sub>3</sub>, 4-Cl, and if both  $R_3$ 's are -CH<sub>3</sub> and one  $X_m$  is 4-F then the other  $X_m$  is not 4-Cl; further provided that if one  $R_3$  is -H and the other  $R_3$  is -CH<sub>3</sub> then both  $X_m$ 's are not 4-Cl, and if one  $R_3$  is -H and the other  $R_3$  is -CH<sub>3</sub> then at least one m is 1;

or a pharmaceutically acceptable salt thereof.

4. The method of claim 3 wherein for said compound each X is independently either -F, -Cl, -OCF<sub>3</sub> or -CF<sub>3</sub>;

each R<sup>1</sup> is -H; each R<sup>2</sup> is -H; one R<sup>3</sup> is -H, and the other R<sup>3</sup> is either -H or -CH; and each m is 1.

5. The method of claim 3 wherein said compound has the chemical structure:



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wherein  $X^1$  is either -Br, -Cl, -F, -I, -CF<sub>3</sub>, alkyl, -OH, -OCF<sub>3</sub>, -O-alkyl, or -O-acyl,

 $X^2$  is either -Br, -Cl, -F, -I, -CF<sub>3</sub>, alkyl, -OH, -OCF<sub>3</sub>,

25 -O-alkyl, or -O-acyl; and

 $R^3$  is either -H of -CH<sub>3</sub>;

or a pharmaceut cally acceptable salt thereof.

6. The method of claim 5, wherein  $X^1$  is -F, -Cl, -OCF<sub>3</sub> or  $-CF_3$ ; and  $X^2$  is either 2-OCH<sub>3</sub>, 2-CH<sub>3</sub>, 3-F, 3-CF<sub>3</sub>, or 4-CF<sub>3</sub>.

A method of treating a patent for comprising the step of administering to said patient an effect amount of a compound having the chemical structure:

$$(X)m$$
 $Ar^1$ 
 $R^1$ 
 $R^2$ 
 $NR^3R^3$ 
 $(X)m$ 
 $Ar^2$ 

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wherein each X is independently selected from the group consisting of -Br, -Cl,  $\F$ , -I, -CF<sub>3</sub>, alkyl, -OH, -OCF<sub>3</sub>, -O-alkyl, and -O-acyl;

Ar and Ar are each independently selected from the group consisting of phenyl, naphthyl, thiofuranyl, tetrahydronaphthyl, 10 furanyl, tetrahydrofuranyl, pyridyl, quinolinyl, isoquinolinyl, tetrahydroquinolinyl, tetrahydroisoquinolinyl

cyclohexyl,

cycloheptyl, and cyclopentyl;

each R1 is independently selected from the group consisting of -H, alkyl, hydroxyalkyl, -OH, -O-alkyl, and -O-acyl;

each R2 is independently selected from the group consisting of -H, alkyl, and hydroxyalkyl, or both  $R^2$ s together are imino;

each  $R^3$  is independently selected from the group consisting of -H, alkyl, 2-hydroxyethyl, and alkylphenyl; and

m is 0 to 5; 20

or a pharmaceutically acceptable salt thereof.

The method of claim 7 / wherein for said compound each X is independently either -F,  $-\alpha$ 1, -OCF<sub>3</sub> or -CF<sub>3</sub>;

 ${\rm Ar}^1$  and  ${\rm Ar}^2$  are each independently phenyl or naphthyl;

each R1 is -H;

each R2 is -H;

one R3 is -H, and the other R3 is either -H or -CH; each m is 0 or 1,

The method of claim 7, wherein said compound has the chemical structure:

wherein  $X^1$  is either -Br, -Cl, -F, -I,  $-CF_1$ , alkyl, -OH,  $-OCF_3$ , -O-alkyl, or -O-acyl;

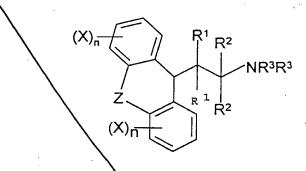
 $X^2$  is either -Br/-Cl, -F, -I, -CF<sub>3</sub>, alkyl, -OH, -OCF<sub>3</sub>, -O-alkyl, or -O-acyl; and

 $R^3$  is either /-H or -CH<sub>3</sub>;

or a pharmaceutically acceptable salt thereof.

The method of claim 9 wherein  $X^1$  is either -F, -Cl, 10. -OCF<sub>3</sub> or  $-CF_3$ ; and  $X^2$  is either 2-OCH<sub>3</sub>, 2-CH<sub>3</sub>, 3-F, 3-CF<sub>3</sub>, or 4-CF<sub>3</sub>.

A method of treating a patent for depression comprising the step of administering to said patient an effect amount of a compound having the chemical structure:



wherein each X is independently selected from the group 20 consisting of -Br, -Cl, -F,  $\sqrt{I}$ , -CF<sub>3</sub>, alkyl, -OH, -OCF<sub>3</sub>, -O-alkyl, and -O-acyl;

of -H, alkyl, and hydroxyalkyl, or both R2s together are imino;

each R is independently selected from the group consisting of -H, alkyl, &-hydroxyethyl, and alkylphenyl;

Z is eithe $\chi$  -CH<sub>2</sub>CH<sub>2</sub>-, -CH<sub>2</sub>CH(CH<sub>3</sub>)-, -CH=CH-, -O-CH<sub>2</sub>-, -S-CH<sub>2</sub>-,  $-CH_2-$ , -O-, or -6-; and

each n is independently 1 to 4; or a pharmaceutically acceptable salt thereof.

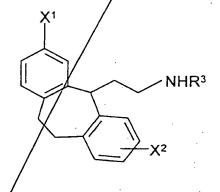
The compound of claim 11, /wherein each X independently either -F, -Cl, -OCF3 or -CF/

each R1 is -H;

each R2 is -H;

one  $R^3$  is -H, and the other  $R^3$  is/either -H or -CH; and each n is 1.

The method of claim 11,/wherein said compound has the chemical structure:



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wherein X1 is either -Br, -Cl, -F, -I, -CF3, alkyl, -OH, -OCF<sub>3</sub>, -O-alkyl, or /-O-acyl;

 $X^2$  is either fBr, -Cl, -F, -I, -CF<sub>3</sub>, alkyl, -OH, -OCF<sub>3</sub>, -O-alkyl, or -O-acyl; and

R3 is either -H or -CH3;

or a pharmaceutically acceptable salt thereof.

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The method of claim 13 wherein  $X^1$  is -F, -Cl, -OCF<sub>3</sub> or -CF<sub>3</sub>; and  $X^2$  is either either -F, -Cl, -OCH<sub>3</sub>, -CH<sub>3</sub>, -OCF<sub>3</sub> or -CF<sub>3</sub>.

15. A method of treating a patent for depression comprising the step of administering to said patient an effect amount of a compound having the chemical structure:

$$(X)m$$
— $Ar^1$ 
 $R^1$ 
 $R^2$ 
 $NR^3R^3$ 
 $(X)m$ — $Ar^2$ 
 $R^1$ 
 $R^2$ 

wherein each X is independently selected from the group consisting of -Br, -Cl, -F, -I, -CF<sub>3</sub>, alkyl, -OH, -OCF<sub>3</sub>, -O-alkyl, and -O-acyl; ; preferably, each X is independently either -F, -Cl, -OCF<sub>3</sub> or -CF<sub>3</sub>;

Ar¹ and Ar² are each independently selected from the group consisting of phenyl, naphthyl, thiofuranyl, tetrahydronaphthyl, furanyl, tetrahydrofuranyl, pyridyl, quinolinyl, isoquinolinyl, tetrahydroquinolinyl, tetrahydroisoquinolinyl, cyclohexyl, cycloheptyl, and cyclopentyl; preferably Ar¹ and Ar² are independently naphthyl or phenyl; more preferably at least one of Ar¹ and Ar² is phenyl; and more preferably, both Ar¹ and Ar² are phenyl;

Y is either  $-CH_2-$ , -O-, or -S-;

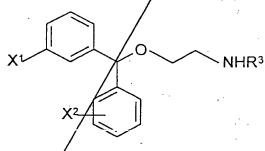
each R<sup>1</sup> is independently selected from the group consisting of -H, alkyl, hydroxyalkyl, -OH, -O-alkyl, and -O-acyl; preferably, each R<sup>1</sup> is -H;

each  $R^2$  is independently selected from the group consisting of -H, alkyl, and hydroxyalkyl, or both  $R^2$ s together are imino; preferably each  $R^2$  is -H;

each R<sup>3</sup> is independently selected from the group consisting of -H, alkyl, 2-hydroxyethyl, and alkylphenyl preferably, each R<sup>3</sup> is independently either -H or -CH<sub>3</sub>; more preferably one R<sup>3</sup> is -H, and the other R<sup>3</sup> is either -H or -CH; and

seach m is independently an integer from 0 to 5; and preferably, each m is independently 0 or 1.

16. The method of claim 15, wherein said compound has the chemical structure; Structure VIII



wherein  $X^1$  is independently selected from the group consisting of -H,  $_2$ Br, -Cl, -F, -I, -CF $_3$ , alkyl, -OH,

-OCF<sub>3</sub>, -O-alkyl, or -O-acyl; preferably, X<sup>1</sup> is either -F, -Cl, -OCF<sub>3</sub> and -CF<sub>3</sub>;

 $X^2$  is either -Er, -Cl, -F, -I, -CF<sub>3</sub>, alkyl, -OH, -OCF<sub>3</sub>, -O-alkyl, or -O-acyl; preferably,  $X^2$  is independently either -F, -Cl, -OCH<sub>3</sub>, -CH<sub>3</sub>, -OCF<sub>3</sub> or -CF<sub>3</sub>; more preferably,  $X^2$  is either 2-OCH<sub>3</sub>, 2-CH<sub>3</sub>, 3-F, 3-CF<sub>3</sub>, or 4-CF<sub>3</sub>; and

R<sup>3</sup> is either -H or CH<sub>3</sub>;

or a pharmaceutically acceptable salt thereof.

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i7. A compound having the chemical structure;

or a pharmaceutically acceptable salt thereof.

18. A method of treating a patent for depression comprising the step of administering to said patient an effect amount of a compound having the chemical structure:

5 or a pharmaceutically acceptable salt thereof.

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